P5)

#include <iostream>

using namespace std;

class student

{ int rno;

string sname;

public:

void setStudData()

{ cout<<"enter student name and rollno\n";

cin>>sname>>rno;

}

void dispStud()

{ cout<<"stud name:"<<sname<<endl;

cout<<"stud rollno:"<<rno<<endl;

}

};

class sports

{

int sportmks;

public:

void setSportsData()

{ cout<<"enter sports marks\n";

cin>>sportmks;

}

int getSportMk(){ return sportmks;}

void dispSports()

{ cout<<"sports marks:"<<sportmks<<endl;

}

};

class Marks: public student

{ int mks1,mks2;

public:

void setMarks()

{ cout<<"enter marks for subject 1 and subject 2\n";

cin>>mks1>>mks2;

}

int getmk1(){ return mks1;}

int getmk2(){ return mks2;}

void dispMarks()

{ cout<<"Subject 1 marks:"<<mks1<<endl;

cout<<"Subject 2 marks:"<<mks2<<endl;

}

};

class Report: public Marks,public sports

{ char grade;

double per;

public:

void compute()

{ double sum=getmk1()+getmk2()+getSportMk();

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sum=sum/300\*100;

per=sum;

if(per>=70)

grade='A';

else if(per>=60 && per<70)

grade='B';

else if(per>=50 && per<60)

grade='C';

else if(per>=40 && per<50)

grade='D';

else

grade='F';

}

void dispReport()

{ dispStud();

dispMarks();

dispSports();

cout<<"percentage:"<<per<<endl;

cout<<"grade:"<<grade<<endl;

}

};

int main()

{ Report r;

r.setStudData();

r.setSportsData();

r.setMarks();

r.compute();

r.dispReport();

return 0;

}

OUTPUT:  
